Name: ..... Class: .....

Task 1

1. Look at the storage devices in the table below. For each one, tick whether it is magnetic, optical or solid state.

Storage device	Magnetic	Optical	Solid state
Hard disk drive			
Blu-ray			
CD ROM			
USB flash drive			
DVD RAM			
SSD hard drive			
SD card			
Floppy disk drive			
Backup tape drive			

2. There are three different methods that are used to store data.

   (a) Name the **three** different methods.

   Method 1:

   Method 2:

   Method 3:

Task 2

(a) Research devices on the internet to complete the first three columns of the following table.

	Capacity	Speed	Cost	Cost per GB
HDD				
SSD				
Blu-ray				
SD card				

(b) Calculate the cost per Gigabyte of each of the devices that you found and complete the fourth column of the table.

(c) Compare your answers with a partner.

Why might there be differences in the cost per GB for the same type of device?

Task 3

For each of the devices in the table below, explain factors that will affect their durability and portability.

The first row has been completed for you.

	Durability	Portability
HDD (magnetic)	Fairly durable When stationary tends to be durable – but if moved, the head can 'crash' on the disk damaging parts of it Must remain sealed to prevent dust damage Many moving parts that can break	Most hard disks are relatively large, but smaller 2.5" drives can fit in a pocket for transferring data or backups
SSD		
Blu-ray		
SD card		

Task 4

Calculate the data capacity required for the following scenarios. State the most suitable type of storage based on the data requirements. Justify your choice.

	Capacity required	Storage type required	Justification
20 photographs at 20MB each			
200 MP4 files at 3GB each			
Three word processed documents at 1MB each			